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Published on SBIR.gov (<https://www.sbir.gov>)

[1. CBD152-001: Adjustable Focus Lenses for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

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[2. CBD152-002: Smart Split Neck Seals for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

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[3. CBD152-003: Development of Mycotoxin Medical Countermeasures](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

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[4. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The explosion in the "omics" field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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5. [CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

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6. [CBD152-006: Signal Processing for Layered Sensing](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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7. [1.: Air & Climate](#)

Release Date: 07-16-2014 Open Date: 07-16-2014 Due Date: 10-09-2014 Close Date: 10-09-2014

1.A Industrial process pollution reductions 1.B Lab-on-a-chip sensors 1.C Nano-air filters

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8. [2.: Manufacturing](#)

Release Date: 07-16-2014 Open Date: 07-16-2014 Due Date: 10-09-2014 Close Date: 10-09-2014

2.A Non-toxic electronics

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9. [3.: Toxic Chemicals](#)

Release Date: 07-16-2014 Open Date: 07-16-2014 Due Date: 10-09-2014 Close Date: 10-09-2014

3.A Non-fluorinated surfaces or coatings 3.B Polyurethane coatings 3.C Flame retardant materials

SBIR Environmental Protection Agency

10. [4.: Water](#)

Release Date: 07-16-2014 Open Date: 07-16-2014 Due Date: 10-09-2014 Close Date: 10-09-2014

4.A Nutrient recovery (wastewater) 4.B Small drinking water systems

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